2872

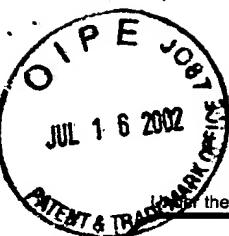● ∅ RECEIVED

JUL 1 8 2002

Please type a plus sign (+) inside this box → +

Technology Center 2600   PTO/SB/21 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/270,256
Filing Date	March 15, 1999
First Named Inventor	Klebanov
Group Art Unit	2672
Examiner Name	R. Yang
Total Number of Pages in This Submission	
Attorney Docket Number	0100.9900440

COPY OF PAPERS ORIGINALLY FILED

ENCLOSURES   *(check all that apply)*

☐ Fee Transmittal Form
 ☐ Fee Attached
☒ Amendment / Reply
 ☐ After Final
 ☐ Affidavits/declaration(s)
☐ Extension of Time Request
☐ Express Abandonment Request
☐ Information Disclosure Statement
☐ Certified Copy of Priority Document(s)
☐ Response to Missing Parts/ Incomplete Application
 ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

☐ Assignment Papers *(for an Application)*
☐ Drawing(s)
☐ Licensing-related Papers
☐ Petition
☐ Petition to Convert to a Provisional Application
☐ Power of Attorney, Revocation Change of Correspondence Address
☐ Terminal Disclaimer
☐ Request for Refund
☐ CD, Number of CD(s) _____

☐ After Allowance Communication to Group
☐ Appeal Communication to Board of Appeals and Interferences
☐ Appeal Communication to Group *(Appeal Notice, Brief, Reply Brief)*
☐ Proprietary Information
☐ Status Letter
☑ Other Enclosure(s) *(please identify below):*

Return Receipt Postcard

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm *or* Individual name	Timothy J. Bechen Reg. No. 48,126
Signature	
Date	July 10, 2002

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: July 10, 2002

Typed or printed name	Karenlna Oliver		
Signature	Karenina Oliver	Date	July 10, 2002

#9

7-24-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Klebanov   Examiner: Ryan Yang
Serial No. 09/270,256   Art Group: 2672
Filing Date: March 15, 1999   Our file no. 00100.99.0044
Confirmation No. 2265   Docket No. 0100.9900440

COPY OF PAPERS ORIGINALLY FILED

Title: **METHOD AND APPARATUS FOR RENDERING AN IMAGE IN A VIDEO GRAPHICS ADAPTER**

Box Non-Fee Amendment
Assistant Commissioner for Patents
U.S. Patent and Trademark Office
Washington, D.C. 20231

Attn: Examiner Ryan Yang

Dear Sir:

This is in response to a second non-final Office Action mailed May 15, 2002. Applicant respectfully traverses and requests reconsideration.

Applicant's Attorney initially wishes to express gratitude to the Examiner for the telephone conference conducted May 30, 2002 in which the Examiner acknowledged the non-finality of the present office action.

Claims 1, 3-4, 15, and 19 stand rejected under 35 U.S.C. §102(b) as being anticipated over U.S. Patent No. 5,275,565 ("Moncrief"). Moncrief teaches, *inter alia*, what is currently known as a simulator, including at least three video monitors which display three respective windows illustrating a simulated space. In one embodiment, Moncrief teaches, *inter alia*, having a housing in which the windows are displaced and including a seat and user controls such as a steering wheel, a brake pedal, an accelerator pedal, or a stick shift. Moncrief discloses, *inter alia*, utilizing three separate video monitors to simulate a space that includes a panoramic view for a simulated activity, for example, to simulate driving a vehicle, the first monitor would be utilized to simulate the view out of the front windshield of a car, the left monitor would be used to simulate the view out of the driver's side window and the right monitor would be used to simulate the view out of the passenger side window. Electronically, the simulator includes three

1

separate monitors, one being a master controller and two monitors being a slave controller in response to the master controller. The monitors coordinate with each other to provide the panoramic view by each individually displaying a portion of the simulated space with respect to the other portions of the simulated space. Moncrief teaches, *inter alia*, each individual monitor illustrating its own specific and independent image which represents a portion of the simulated space itself, wherein, the combination of all three monitors simulate and provides the illusion of a panoramic space itself.

The present invention is related to rendering active video using more than one video graphics adapter (VGA). In one embodiment, a video source is received by a first VGA. The video source is disposed within a video memory associated with the first VGA, wherein the stored video is associated with the window of an existing application. When the window of the existing application is shifted to coincide with the video memory of a second graphics adapter, the first VGA performs a memory access function across the system bus to the appropriate video memory location with the second VGA to allow the rendering of that portion of the video now residing on a second monitor. Such remote rendering allows for active video signals to be displayed on any secondary or primary VGA.

Regarding Claim 1, Applicant respectfully traverses the Examiner's characterization of the teachings of Moncrief as applied to the present invention. Initially, Applicant respectfully disagrees with the Examiner's interpretation of Moncrief as teaching rendering at least a first portion of the first frame of video at the first VGA in response to a first control signal and rendering at least a second portion of the first frame of video at a second VGA in response to a second control signal. It is respectfully submitted that the Examiner has misapplied the teachings of Moncrief as related to the simulated space, as the simulated space represents a panoramic view and each individual monitor illustrates a representative portion of the simulated space. Moncrief does not teach that the simulated space is a full frame of video where a first portion is provided on a first screen and a second portion is provided on the second screen, but rather Moncrief teaches providing a specific image on each specific individual screen. It is further submitted the Examiner has misinterpreted the teachings of the master controller as being a first VGA which receives a first frame of active window from a video source, as claimed in Claim 1. The Examiner's interpretation of the teachings of Moncrief does not provide adequate support for the further limitations of Claim 1 in that the cited passage on page 2 of the present

2

Office Action intimates that the first frame of active video from a video source reaches a first portion of said simulated space which is spaciously congruent with said first monitor. This characterization of Moncrief is contrary to the position that teaches the further limitations of rendering at least a first portion of the first frame of video at the first VGA and rendering at least a second portion of the first frame of video at a second VGA as Moncrief clearly teaches, *inter alia*, providing separate and independent displays on separate and independent monitors, wherein the master controller and the slave controllers synchronize and coordinate the individual images within the overall simulated space.

As such, Applicant respectfully requests reconsideration and withdrawal. Should the Examiner maintain the present rejection, Applicant respectfully requests a showing, including column and line number, of where Moncrief discloses each of the claimed limitations, including but not limited to, rendering at least a first portion of the first frame of video and rendering a second portion of the first frame of video at a second VGA.

Regarding Claims 3 and 4, Applicant respectfully resubmits the above position offered with respect to Claim 1. It is further submitted that Claims 3 and 4 contain further patentable subject matter in view thereof. As such, Applicant respectfully requests reconsideration and withdrawal of the present rejection.

Regarding Claim 15, Applicant respectfully traverses and requests reconsideration. Applicants resubmit the above position offered with respect to Claim 1, specifically that the Examiner has improperly asserted Moncrief as teaching the claimed limitations of a first frame of active video and displaying at least a first portion of the first frame of video at second VGA in response to a second control signal. As stated above with respect to Claim 1, Moncrief fails to teach providing a first frame that is capable of being displayed, at least a portion of it being displayed, at a second VGA. Moncrief teaches providing individual and specific images which are a part of an overall panoramic view defining a simulated space, or each respective window holds a sector of the simulated space, which is inconsistent with the claimed invention of Claim 15 which claims displaying at least a first portion of the first frame of video at a second VGA. At best, Moncrief teaches receiving a first sector within the simulated space which is a separate and distinct image at a first monitor, a second sector, a separate and distinct image at a second monitor, and a third sector, a separate and distinct image, and a third monitor to provide the overall impression/illusion of a simulated panoramic space.

3

As such, Applicant respectfully requests withdrawal of the present rejection. Should the Examiner maintain the present rejection, Applicant requests a showing, including column and line numbers, of where each of the claimed limitations are specifically disclosed by Moncrief. For example, Applicant requests a showing of where Moncrief teaches receiving at a first VGA, a first frame of active video from a video source, wherein the first frame of active video includes the simulated space, wherein individual portions (sectors) are disposed and displayed at a second VGA.

Regarding Claim 19, Applicant respectfully submits that Claim 19 contains further patentable subject matter in view thereof. Applicant traverses the Examiner's characterizations of the teachings of Moncrief, as stated above, regarding the claimed limitation of the first frame of active video and that Moncrief does not disclose storing the first frame which the Examiner has indicated as being the full panoramic simulated space, in a memory associated with the first VGA, but rather Moncrief teaches storing individual sectors of the simulated space within buffers, 84, 86 and 88 of the individual controllers, 26, 28 and 30 respectively. As such, Applicant request reconsideration and withdrawal.

Claim 14 currently stands rejected under the 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,574,836 ("Broemmelsiek"). Broemmelsiek discloses an object-orientated display system for displaying an image of a graphical object on a display device, wherein the position of the object being displayed is a function of the position from which a viewer views the display device, therein simulating an interactive three dimensional viewing environment. Broemmelsiek discloses using a transformed matrix, dependent upon a head position, to define the orientation of different active windows within a display system. When it is determined that an exposed function is to be executed, primitive information is utilized to now provide the visual display of previously hidden graphics.

Applicant respectfully submits the Examiner has mischaracterized the teachings of Broemmelsiek as applied to the present invention. Claim 14 recites a processing system for executing instructions, the processor system comprising instructions for monitoring the location of an active window. The Examiner has indicated that Broemmelsiek teaches this limitation when the microprocessor 52 determines the new coordinates of the front object. It is respectfully submitted that determining a new coordinate does not disclose the claimed limitation of monitoring the location of an active window, because determining a new coordinate must be

activated by a processing step to make that determination, wherein the claimed limitation of monitoring is an active processing step executed by the processing system on a continued basis.

Applicant respectfully submits the Examiner has mischaracterized the operation of Broemmelsiek as applied to the claimed present invention of claim 14. Claim 14 recites "sending the active video data from the first video memory to a second video memory when the location of the active video window is associated with the second video memory." Broemmelsiek teaches having a microprocessor draw a front object into a second frame buffer unit in response to an expose event, which is inconsistent with the claimed limitation of the active video window being associated with the second video memory. Broemmelsiek operates in a completely different manner than the claimed present invention, utilizing multiple frame buffers in a single graphics engine to overcome parallax viewing in a visual display. Broemmelsiek teaches, *inter alia*, utilizing the second frame buffer unit in response to an expose event because there are now more pixel information to be rendered and thereupon displayed. As such, Applicant respectfully requests reconsideration and withdrawal of the above-noted rejection. Should the Examiner maintain the present rejection, Applicant respectfully request a showing, including column and line numbers, of where Broemmelsiek explicitly teaches the claimed limitation of claim 14, including but not limited to, monitoring the location of an active video window and sending the active video data from the first video memory to a second video memory when the location of the active video window is associated with the second video memory.

Claim 2 currently stands rejected under 35 U.S.C. 103(a) as being unpatentable over Moncrief. Applicant respectfully traverses this rejection and requests reconsideration. It is respectfully submitted that the Examiner's statement regarding the support for this rejection is contrary to the position offered with regards to the rejection for Claim 1. Once again Applicant submits that the Examiner has mischaracterized the claimed limitation of a first portion and second portion as being disclosed by Moncrief as being the full simulated space, wherein fact Moncrief discloses the simulated space is made up of sectors wherein each individual sector is individually provided to specific monitors providing the display of the full simulated space, but Moncrief does not teach having an active video frame with a first portion and second portion, but rather discloses a simulated space which is composed of three separate sections. As such, Applicant requests reconsideration and withdrawal.

This Application is believed to be in condition for allowance and such action at an early date is earnestly solicited. If the Examiner believes that a telephone interview may expedite the prosecution of the application, the Examiner is invited to contact the below attorney at the indicated telephone number.

Respectfully submitted,
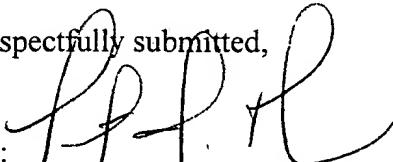
By: _____
Timothy J. Bechen
Registration No. 48,126

Date: July 10, 2002

VEDDER, PRICE, KAUFMAN &
KAMMHOLZ
222 N. LaSalle Street
Chicago, IL 60601
(312) 609-7870
FAX: (312) 609-5005